



Portable Generator Operator's Manual



This generator is rated in accordance with CSA (Canadian Standards Association) standard C22.2 No. 100-04 (motors and generators) and PGMA (Portable Generator Manufacturers' Association) standard PGMA G200 (Standard for Testing and Validating Performance of Portable Generators).

BRIGGS & STRATTON POWER PRODUCTS GROUP, LLC
MILWAUKEE, WISCONSIN, U.S.A.



Manual No. 318496GS Revision A

Thank you for purchasing this quality-built Briggs & Stratton® generator. We are pleased that you've placed your confidence in the Briggs & Stratton brand. When operated and maintained according to the instructions in this manual, your Briggs & Stratton generator will provide many years of dependable service.

This manual contains safety information to make you aware of the hazards and risks associated with generator products and how to avoid them. This generator is designed and intended only for supplying electrical power for operating compatible electrical lighting, appliances, tools and motor loads, and is not intended for any other purpose. It is important that you read and understand these instructions thoroughly before attempting to start or operate this equipment. **Save these original instructions for future reference.**

This generator requires final assembly before use. Refer to the *Assembly* section of this manual for instructions on final assembly procedures. Follow the instructions completely.

Where to Find Us

You never have to look far to find Briggs & Stratton support and service for your generator. Consult your Yellow Pages. There are over 30,000 Briggs & Stratton authorized service dealers worldwide who provide quality service. You can also contact Briggs & Stratton Customer Service by phone at **(800) 743-4115**, or on the Internet at BRIGGSandSTRATTON.COM.

Generator

Model Number

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Revision

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Serial Number

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Engine

Model Number

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Type Number

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Code Number

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Date Purchased

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Operator Safety

Equipment Description



Read this manual carefully and become familiar with your generator. Know its applications, its limitations and any hazards involved.

The generator is an engine-driven, revolving field, alternating current (AC) generator equipped with a voltage regulator. The voltage regulator is designed to automatically maintain a constant output voltage level. It was designed to supply electrical power for operating compatible electrical lighting, appliances, tools and motor loads. The generator's revolving field is driven at about 3600 rpm by a single cylinder engine.

This generator incorporates GFCI (Ground Fault Circuit Interrupter) outlet protection and has its neutral bonded to ground to comply to OSHA inspections on job sites. This generator will not function when connected to a 2 pole transfer switch since the home or building main breaker box also has a neutral bonded to ground. When both the generator and the home or building breaker box contains a neutral bonded to ground, the generators GFCI will open and no outlets will function.

▲ WARNING Electric Shock Hazard could result in death or serious injury. Removing neutral bond will disable GFCI protection.



- DO NOT remove the neutral bond.

NOTICE Exceeding generators wattage/amperage capacity can damage generator and/or electrical devices connected to it.

- DO NOT exceed the generator's wattage/amperage capacity. See *Don't Overload Generator* in the *Operation* section.

Every effort has been made to ensure that the information in this manual is both accurate and current. However, the manufacturer reserves the right to change, alter or otherwise improve the generator and this documentation at any time without prior notice.

The Emission Control System for this generator is warranted for standards set by the Environmental Protection Agency and the California Air Resources Board.

Important Safety Information

The manufacturer cannot possibly anticipate every possible circumstance that might involve a hazard. The warnings in this manual, and the tags and decals affixed to the unit are, therefore, not all-inclusive. If you use a procedure, work method or operating technique that the manufacturer does not specifically recommend, you must satisfy yourself that it is safe for you and others. You must also make sure that the procedure, work method or operating technique that you choose does not render the generator unsafe.

Safety Symbols and Meanings



Toxic Fumes



Kickback



Electrical Shock



Fire



Explosion



Operator's Manual



Moving Parts



Flying Objects



Hot Surface



Explosive Pressure



Chemical Burn

▲ The safety alert symbol indicates a potential personal injury hazard. A signal word (DANGER, WARNING, or CAUTION) is used with the alert symbol to designate a degree or level of hazard seriousness. A safety symbol may be used to represent the type of hazard. The signal word *NOTICE* is used to address practices not related to personal injury.

▲ **DANGER** indicates a hazard which, if not avoided, *will* result in death or serious injury.

▲ **WARNING** indicates a hazard which, if not avoided, *could* result in death or serious injury.

▲ **CAUTION** indicates a hazard which, if not avoided, *could* result in minor or moderate injury.

NOTICE address practices not related to personal injury.

▲ **WARNING** The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

▲ **WARNING** Certain components in this product and related accessories contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

▲ DANGER

Using a generator indoors CAN KILL YOU IN MINUTES.

Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.



NEVER use inside a home or garage, **EVEN IF** doors and windows are open.



Only use **OUTSIDE** and far away from windows, doors, and vents.

▲ WARNING POISONOUS GAS HAZARD. Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You **CANNOT** smell it, see it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas.

- Operate this product **ONLY** outside far away from windows, doors and vents to reduce the risk of carbon monoxide gas from accumulating and potentially being drawn towards occupied spaces.
- Install battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up according to the manufacturer's instructions. Smoke alarms cannot detect carbon monoxide gas.
- **DO NOT** run this product inside homes, garages, basements, crawlspaces, sheds, or other partially-enclosed spaces even if using fans or opening doors and windows for ventilation. Carbon monoxide can quickly build up in these spaces and can linger for hours, even after this product has shut off.
- **ALWAYS** place this product downwind and point the engine exhaust away from occupied spaces.

If you start to feel sick, dizzy, or weak while using this product, shut it off and get to fresh air **RIGHT AWAY**. See a doctor. You may have carbon monoxide poisoning.

▲ WARNING Storage batteries give off explosive hydrogen gas during recharging.



Hydrogen gas stays near battery for a long time after battery has been charged. Slightest spark could ignite hydrogen causing explosion resulting in death, serious injury and/or property damage.

Battery electrolyte fluid contains acid and is extremely caustic. Contact with battery fluid could cause chemical burns resulting in serious injury and/or property damage.

- **DO NOT** allow any open flame, spark, heat, or lit cigarette during and for several minutes after charging a battery.
- Wear protective goggles, rubber apron, and rubber gloves.
- **DO NOT** continue to charge a battery that becomes hot or is fully charged.
- **DO NOT** leave battery unattended.

▲ WARNING Starter cord kickback (rapid retraction) will pull hand and arm toward engine faster than you can let go which could cause broken bones, fractures, bruises, or sprains resulting in serious injury.



- When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback.
- **NEVER** start or stop engine with electrical devices plugged in and turned on.

▲ WARNING Fuel and its vapors are extremely flammable and explosive which could cause burns, fire or explosion resulting in death, serious injury and/or property damage.



WHEN ADDING OR DRAINING FUEL

- Turn generator engine **OFF** and let it cool at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Fill or drain fuel tank outdoors.
- **DO NOT** overfill tank. Allow space for fuel expansion.
- If fuel spills, wait until it evaporates before starting engine.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- Check fuel lines, tank, cap and fittings frequently for cracks or leaks. Replace if necessary.
- **DO NOT** light a cigarette or smoke.

WHEN STARTING EQUIPMENT

- Ensure spark plug, muffler, fuel cap, and air cleaner are in place.
- **DO NOT** crank engine with spark plug removed.

WHEN OPERATING EQUIPMENT

- **DO NOT** operate this product inside any building, carport, porch, mobile equipment, marine applications, or enclosure.
- **DO NOT** tip engine or equipment at angle which causes fuel to spill.
- **DO NOT** stop engine by moving choke control to "**Choke**" position (I).

WHEN TRANSPORTING, MOVING OR REPAIRING EQUIPMENT

- Transport/move/repair with fuel tank **EMPTY** or with fuel shutoff valve **OFF**.
- **DO NOT** tip engine or equipment at angle which causes fuel to spill.
- Disconnect spark plug wire.

WHEN STORING FUEL OR EQUIPMENT WITH FUEL IN TANK

- Store away from furnaces, stoves, water heaters, clothes dryers, or other appliances that have pilot light or other ignition source because they could ignite fuel vapors.

▲ WARNING

- This generator does not meet U. S. Coast Guard Regulation 33CFR-183 and should not be used on marine applications.
- Failure to use the appropriate U. S. Coast Guard approved generator could result in death or serious injury and/or property damage.

▲ WARNING Generator voltage could cause electrical shock or burn resulting in death or serious injury.



- Use listed transfer equipment, suitable for the intended use, to prevent backfeed by isolating generator from electric utility workers.
- When using generator for backup power, notify utility company.
- Use a ground fault circuit interrupter (GFCI) in any damp or highly conductive area, such as metal decking or steel work.
- DO NOT touch bare wires or receptacles.
- DO NOT use generator with electrical cords which are worn, frayed, bare or otherwise damaged.
- DO NOT operate generator in the rain or wet weather.
- DO NOT handle generator or electrical cords while standing in water, while barefoot, or while hands or feet are wet.
- DO NOT allow unqualified persons or children to operate or service generator.

▲ WARNING Exhaust heat/gases could ignite combustibles, structures or damage fuel tank causing a fire, resulting in death, serious injury and/or property damage.



Contact with muffler area could cause burns resulting in serious injury.

- DO NOT touch hot parts and AVOID hot exhaust gases.
 - Allow equipment to cool before touching.
 - Keep at least 5 feet (1.5 m) of clearance on all sides of generator including overhead.
 - It is a violation of California Public Resource Code, Section 4442, to use or operate the engine on any forest-covered, brush-covered, or grass-covered land unless the exhaust system is equipped with a spark arrester, as defined in Section 4442, maintained in effective working order. Other states or federal jurisdictions may have similar laws.
- Contact the original equipment manufacturer, retailer, or dealer to obtain a spark arrester designed for the exhaust system installed on this engine.
- Replacement parts must be the same and installed in the same position as the original parts.

▲ WARNING Unintentional sparking could cause fire or electric shock resulting in death or serious injury.



WHEN ADJUSTING OR MAKING REPAIRS TO YOUR GENERATOR

- Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.

WHEN TESTING FOR ENGINE SPARK

- Use approved spark plug tester.
- DO NOT check for spark with spark plug removed.

▲ WARNING Starter and other rotating parts could entangle hands, hair, clothing, or accessories resulting in serious injury.



- NEVER operate generator without protective housing or covers.
- DO NOT wear loose clothing, jewelry or anything that could be caught in the starter or other rotating parts.
- Tie up long hair and remove jewelry.

▲ CAUTION Excessively high operating speeds could result in minor injury and/or generator damage. Excessively low speeds impose a heavy load.

- DO NOT tamper with governor spring, links or other parts to increase engine speed. Generator supplies correct rated frequency and voltage when running at governed speed.
- DO NOT modify generator in any way.

NOTICE Exceeding generator's wattage/amperage capacity could damage generator and/or electrical devices connected to it.

- DO NOT exceed the generator's wattage/amperage capacity. See *Don't Overload Generator* in the *Operation* section.
- Start generator and let engine stabilize before connecting electrical loads.
- Connect electrical loads in OFF position, then turn ON for operation.
- Turn electrical loads OFF and disconnect from generator before stopping generator.

NOTICE Improper treatment of generator could damage it and shorten its life.

- Use generator only for intended uses.
- If you have questions about intended use, ask dealer or contact local service center.
- Operate generator only on level surfaces.
- DO NOT expose generator to excessive moisture, dust, dirt, or corrosive vapors.
- DO NOT insert any objects through cooling slots.
- If connected devices overheat, turn them off and disconnect them from generator.
- Shut off generator if:
 - electrical output is lost;
 - equipment sparks, smokes, or emits flames;
 - unit vibrates excessively.

Assembly

Your generator requires some assembly and is ready for use after it has been properly serviced with the recommended oil and fuel.

If you have any problems with the assembly of your generator, please call the generator helpline at **(800) 743-4115**. If calling for assistance, please have the model, revision, and serial number from the identification label available. See *Controls and Features* for identification label location.

Unpack Generator

1. Set the carton on a rigid, flat surface.
2. Remove everything from carton except generator.
3. Open carton completely by cutting each corner from top to bottom.
4. Leave generator on carton to install wheel kit.

Shipment Contents

The generator is supplied with:

- Engine oil
- Operator's manual
- Battery float charger
- Battery charge cables
- Wheel kit
- 120/240 Volt, 30 Amp locking plug
- 120 Volt, 30 Amp locking plug

Install Wheel Kit

NOTICE Wheel kit is not intended for over-the-road use.

You will need the following tools to install these components:

- 3/8" and 13 mm wrench
- Socket wrench with a 3/8" and a 13 mm socket
- Pliers
- Safety glasses

Install the wheel kit as follows:

1. Tip generator so that engine end is up.
2. Slide axle (A) through both mounting brackets.
3. Slide a wheel (B) over axle.

NOTICE Be sure to install wheel with raised hub inboard.

4. Place a washer (C) on axle and then place an e-ring (D) in axle groove.

CAUTION E-rings could cause eye injury. E-rings could spring back and become airborne when installing or removing, resulting in moderate injury.

- Always wear eye protection when installing/removing e-rings.

5. Install e-ring with pliers, squeezing from top of e-ring to bottom of axle.
6. Repeat steps 3 through 5 to secure second wheel.
7. Tip generator so that engine side is down.
8. Attach clamps (E) to brackets (F) on both sides of generator with 1/4 - 20 hex screws (G).
9. Repeat steps 2 through 5 to secure the third and fourth wheels.



